

Fig. 1c

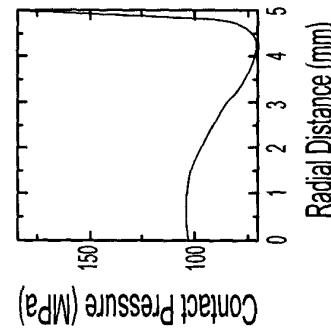


Fig. 1f

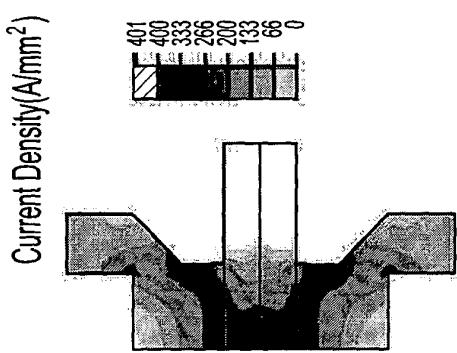


Fig. 1b

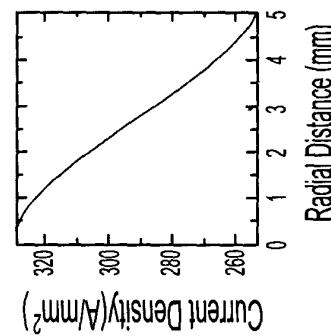


Fig. 1e
(Prior Art)

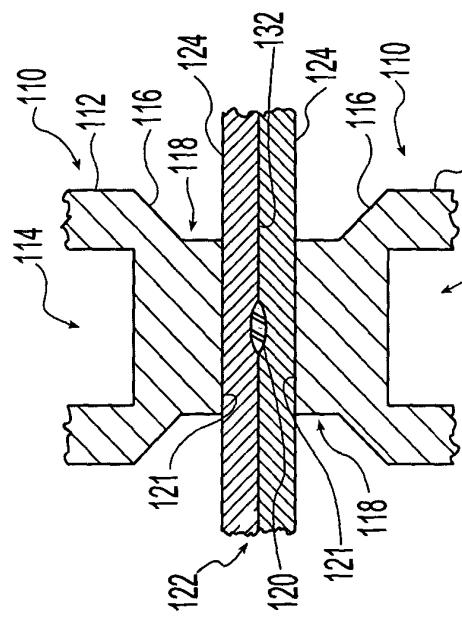


Fig. 1a

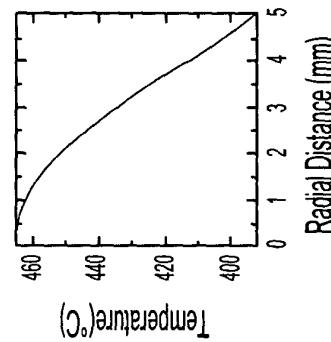


Fig. 1d

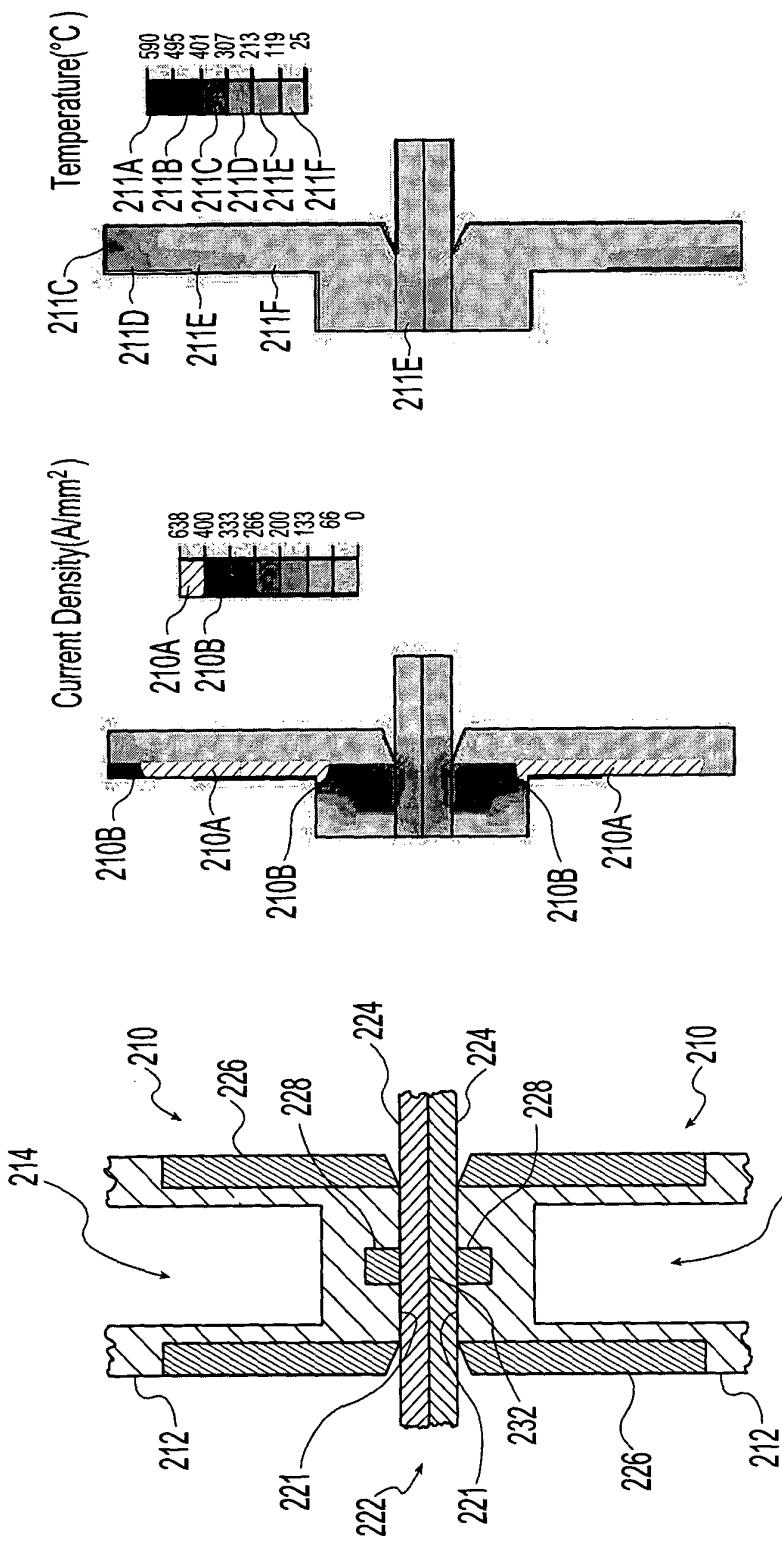


Fig. 2a

(Prior Art)

Fig. 2b

Fig. 2c

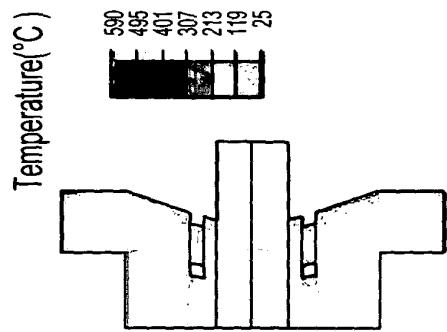


Fig. 3c

(Prior Art)

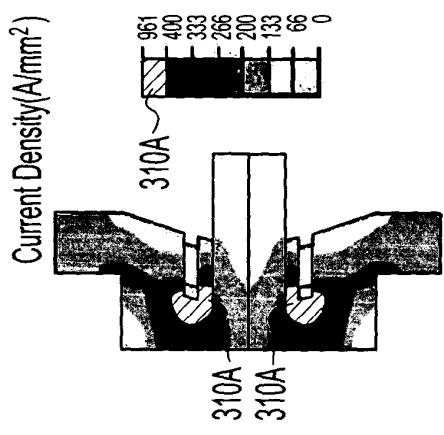


Fig. 3b

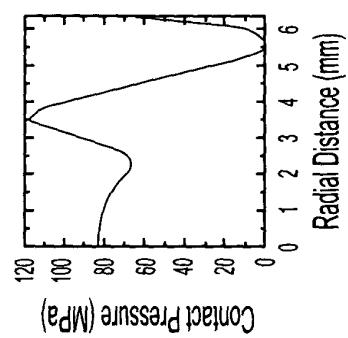


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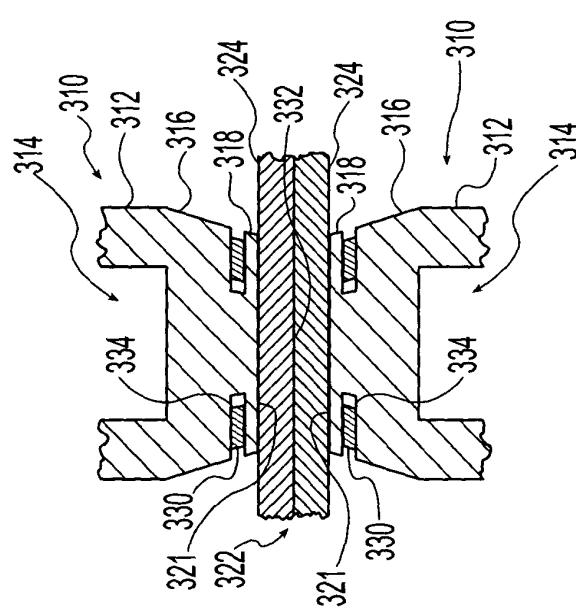


Fig. 3a

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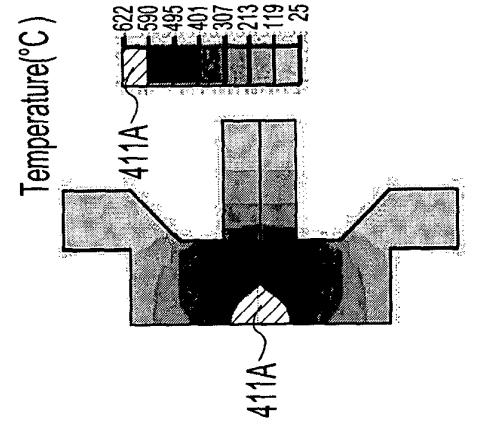


Fig. 4c

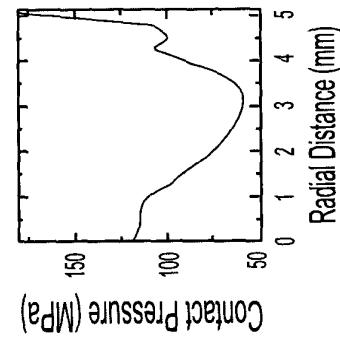


Fig. 4f

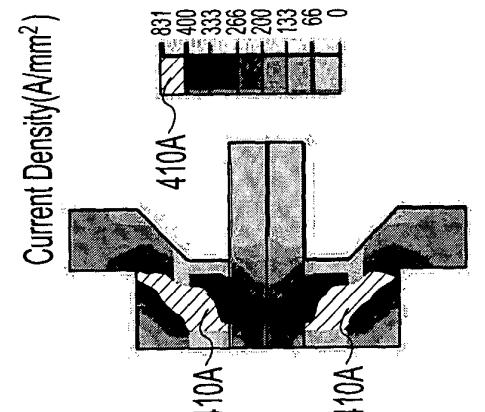


Fig. 4b

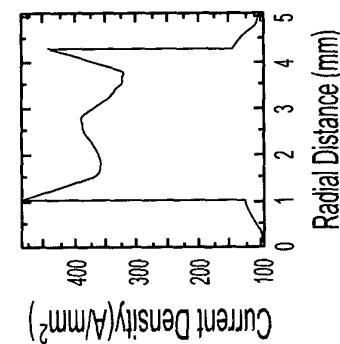


Fig. 4e

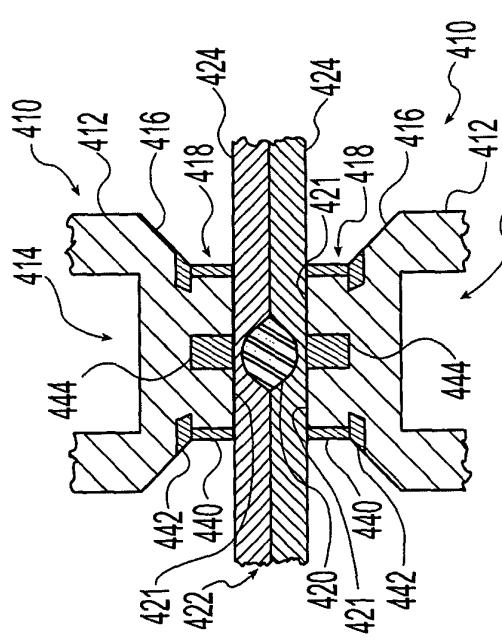


Fig. 4a 414

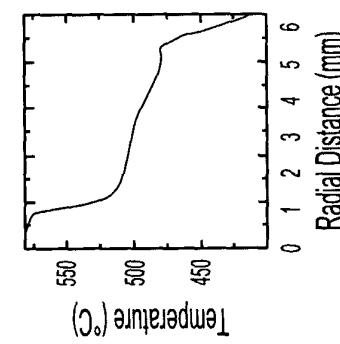


Fig. 4d

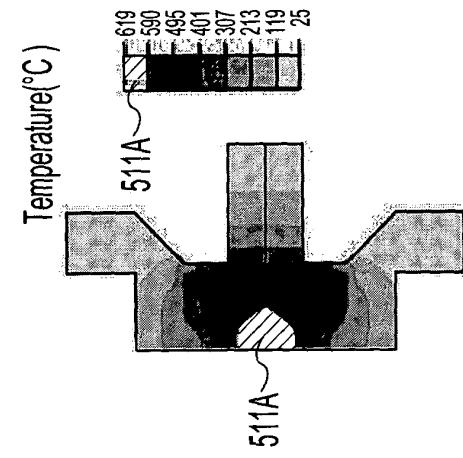


Fig. 5c

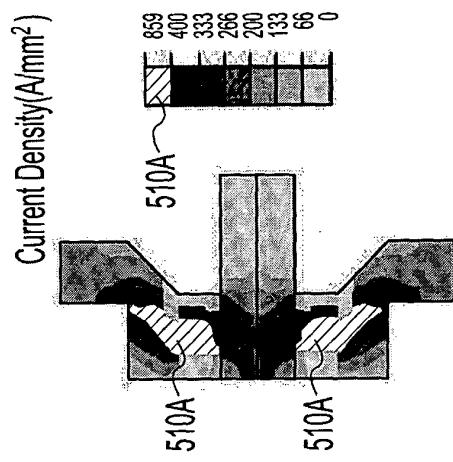


Fig. 5b

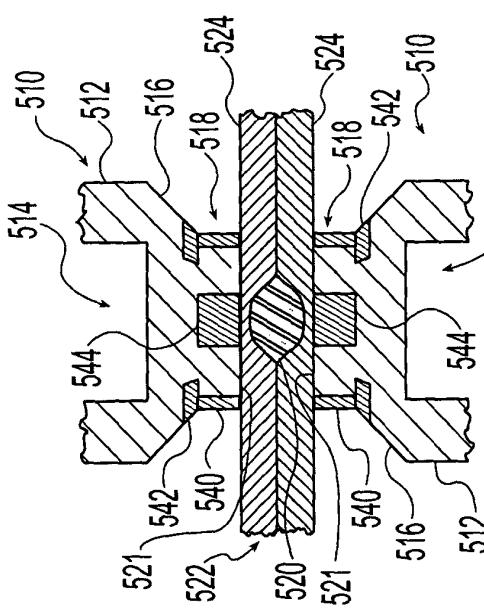
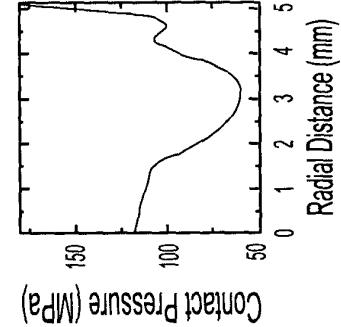
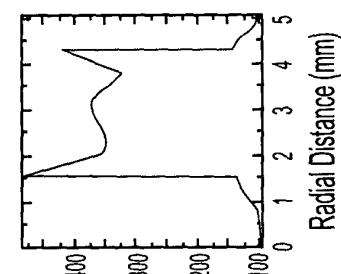


Fig. 5a



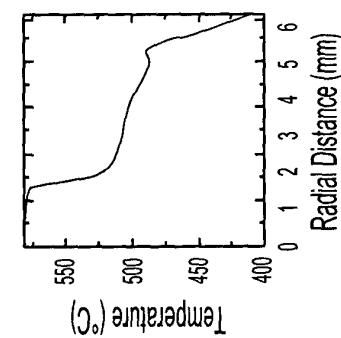
Contact Pressure (MPa)

Fig. 5f



Current Density (A/mm²)

Fig. 5e



Temperature (°C)

Fig. 5d

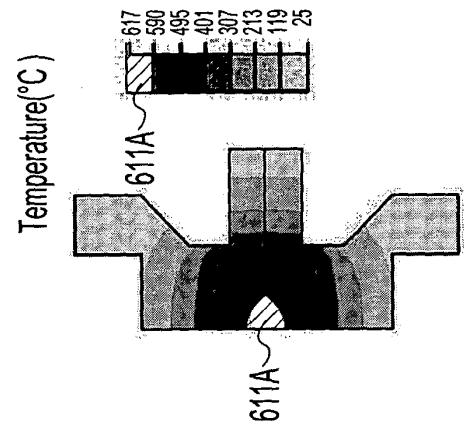


Fig. 6c

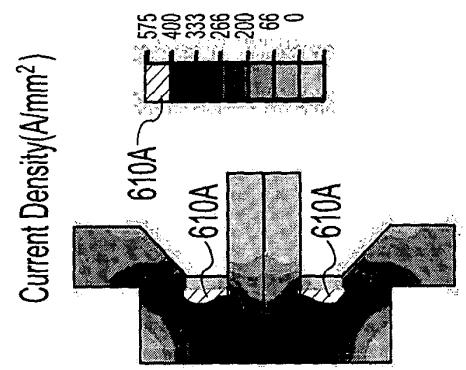


Fig. 6b

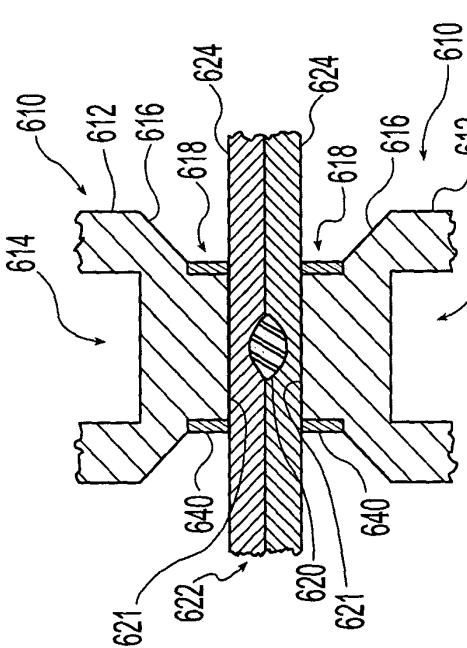
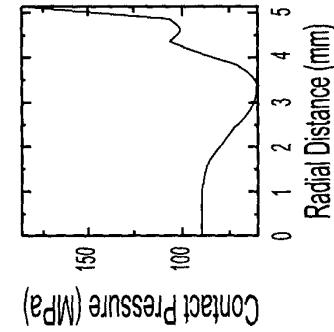
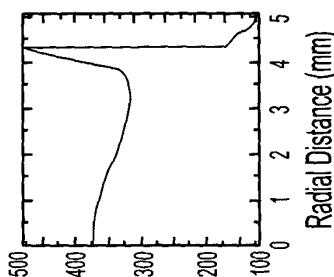


Fig. 6a



Contact Pressure (MPa)



Current Density (A/mm²)

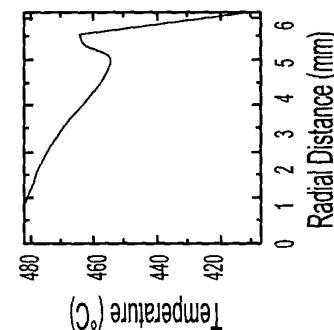


Fig. 6f

Fig. 6e

Fig. 6d

Temperature(°C)

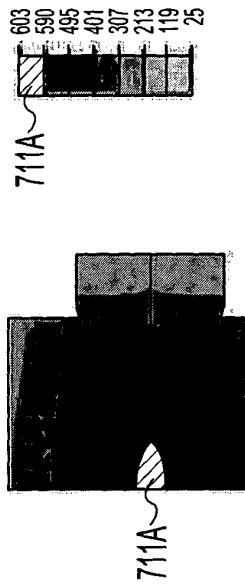


Fig. 7c

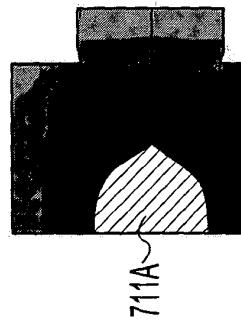


Fig. 7e

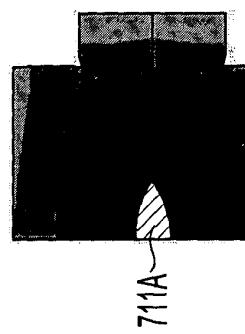


Fig. 7b

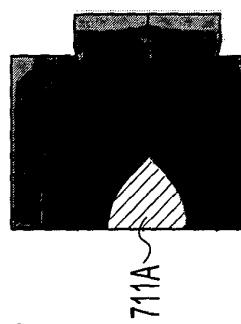


Fig. 7d

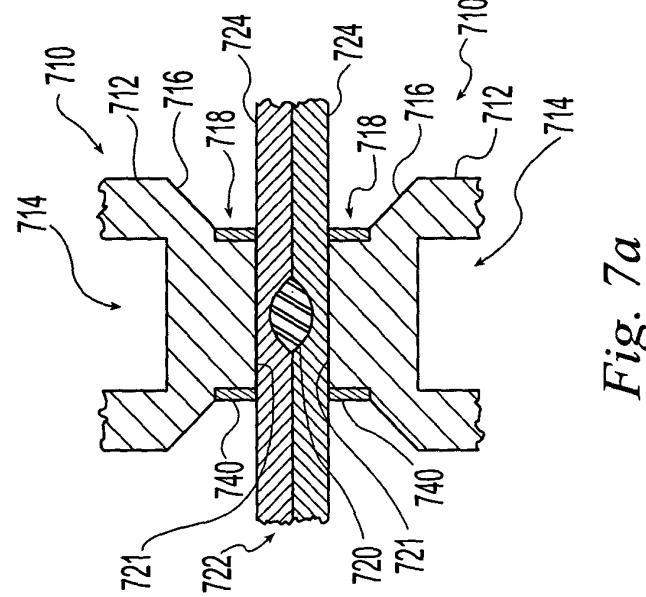


Fig. 7a

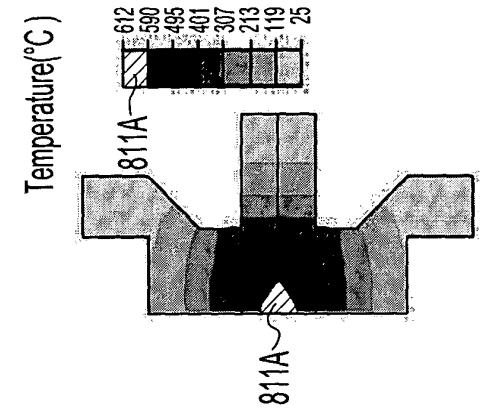


Fig. 8c

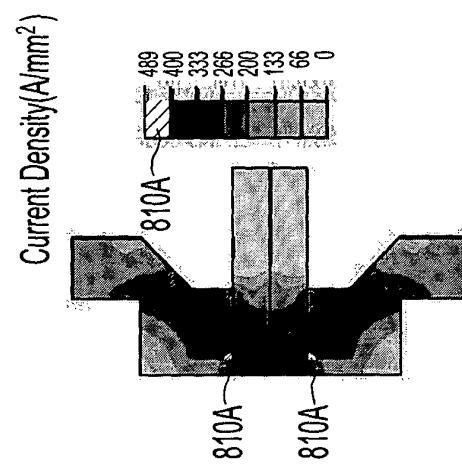


Fig. 8b

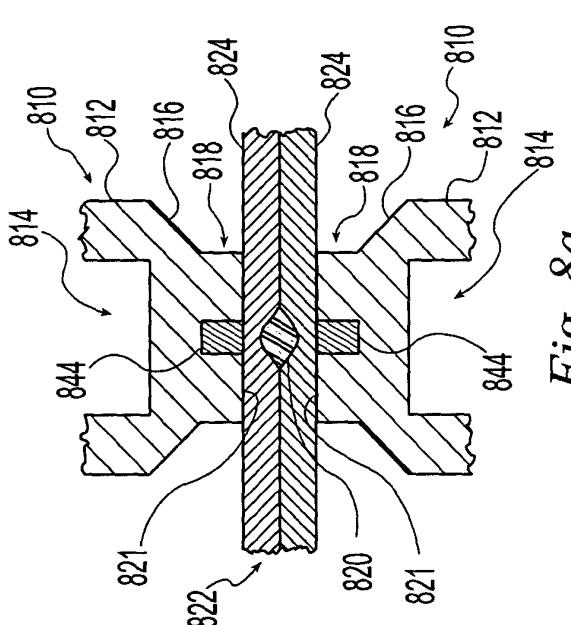
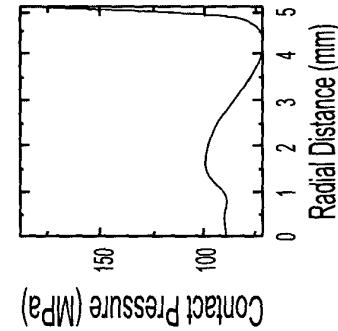
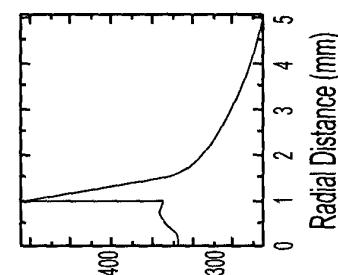


Fig. 8a



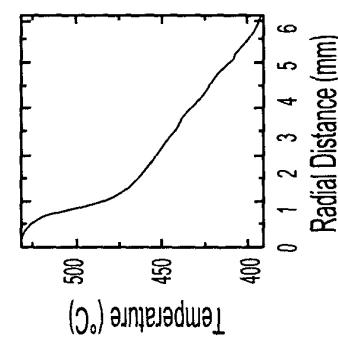
Contact Pressure (MPa)

Fig. 8f



Current Density (A/mm²)

Fig. 8e



Temperature (°C)

Fig. 8d

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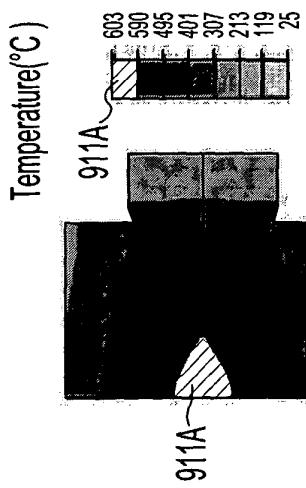


Fig. 9c

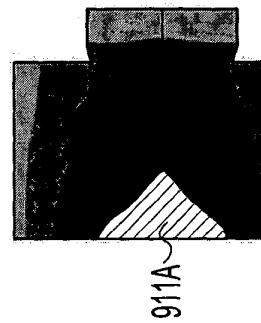


Fig. 9e

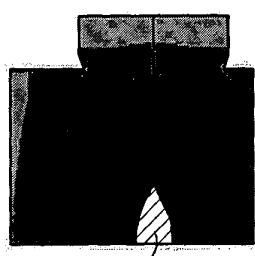


Fig. 9b

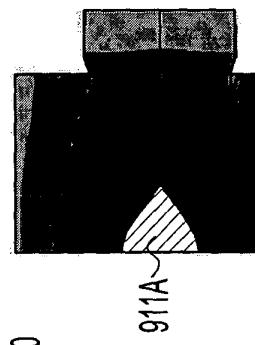


Fig. 9d

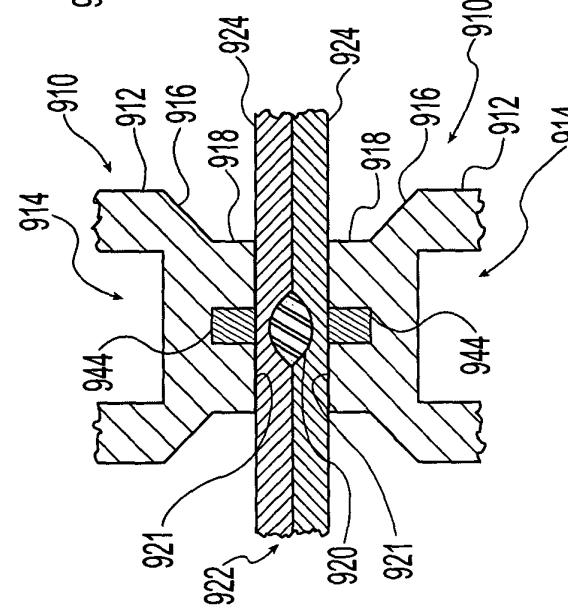


Fig. 9a

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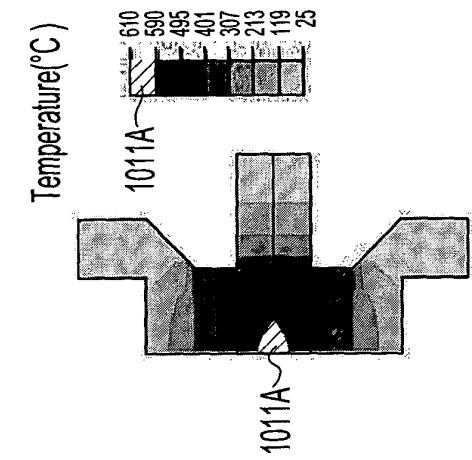


Fig. 10c

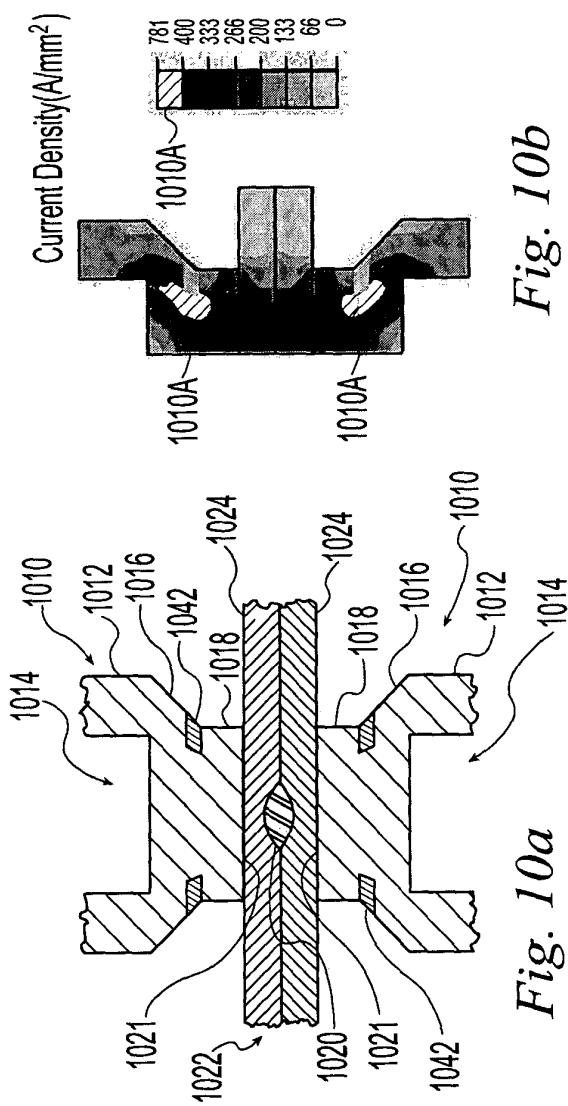


Fig. 10a

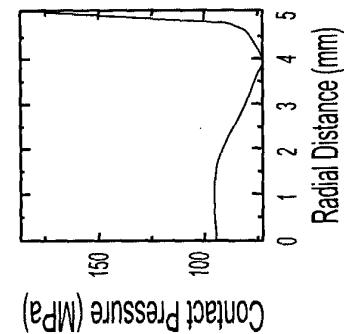


Fig. 10f

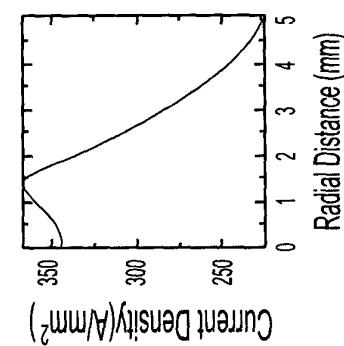


Fig. 10e

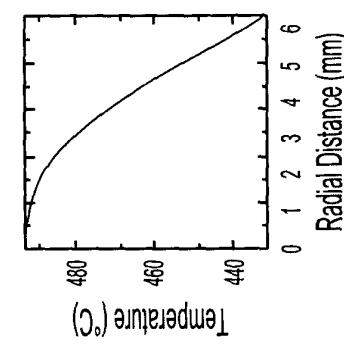


Fig. 10d

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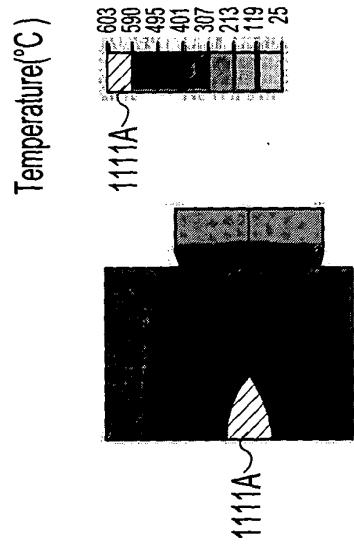


Fig. 11c

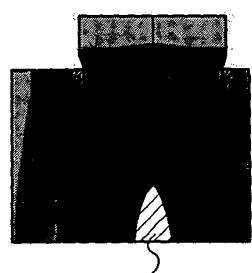


Fig. 11b

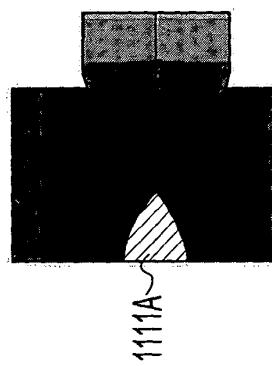


Fig. 11d

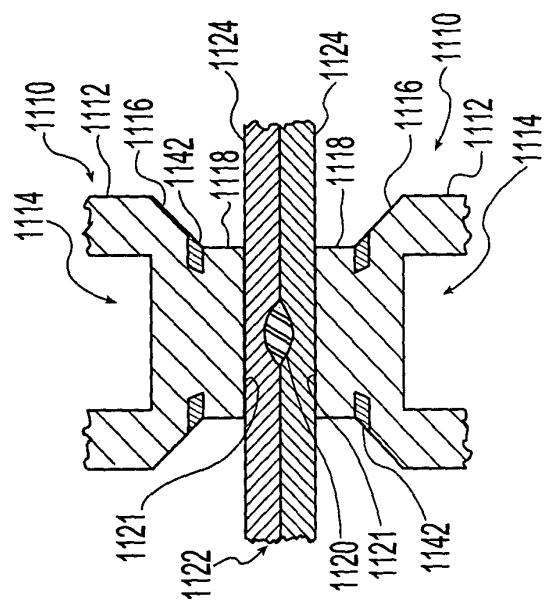


Fig. 11a

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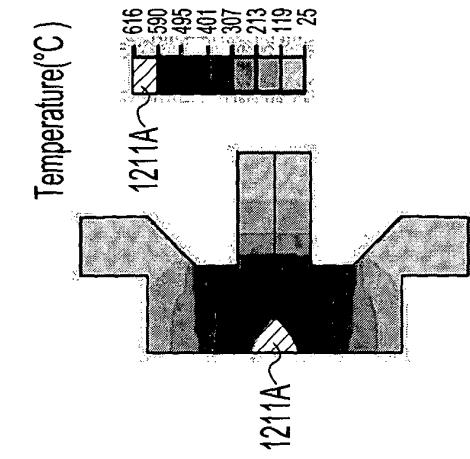


Fig. 12c

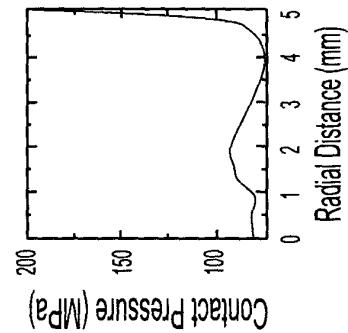


Fig. 12f

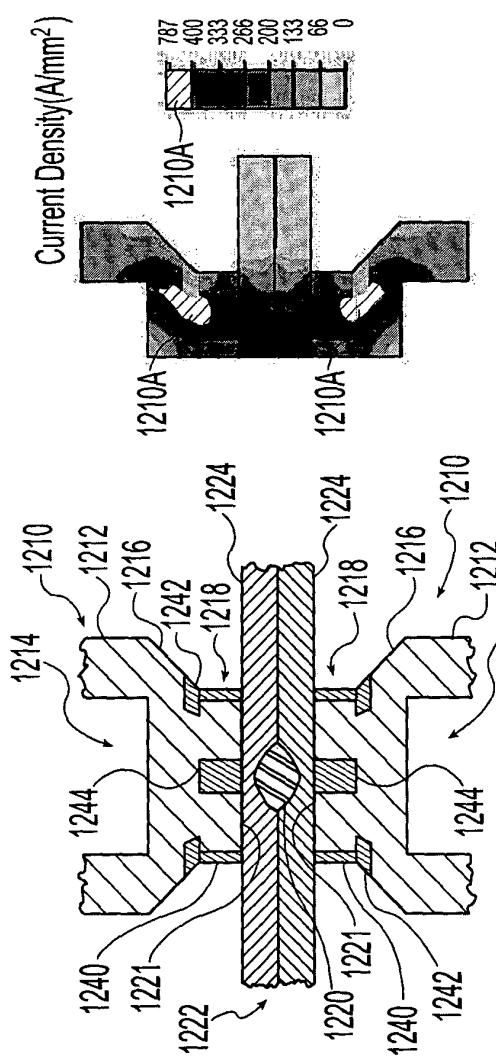


Fig. 12b

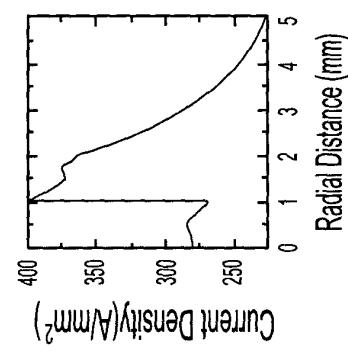


Fig. 12e

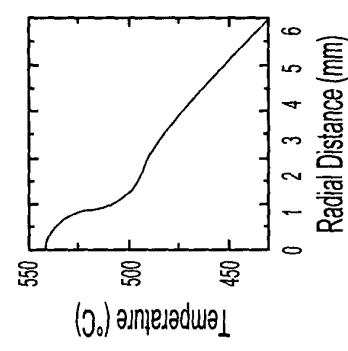


Fig. 12d

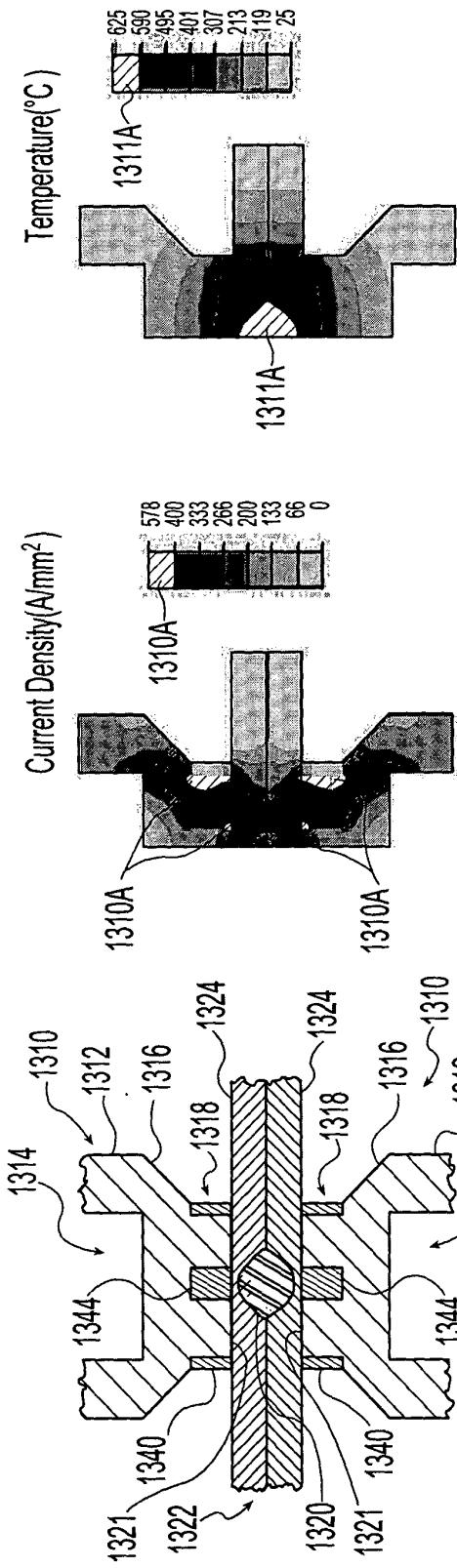


Fig. 13c

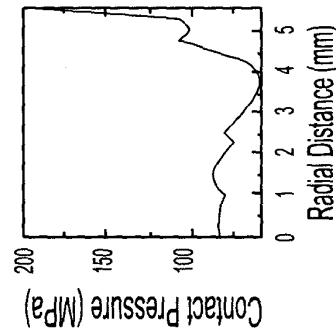


Fig. 13f

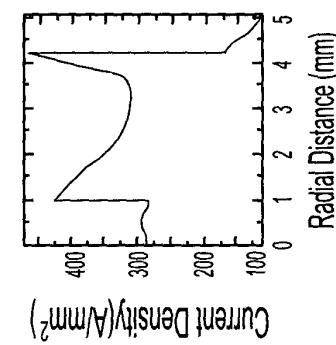


Fig. 13e

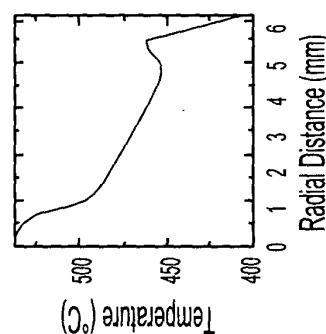


Fig. 13d

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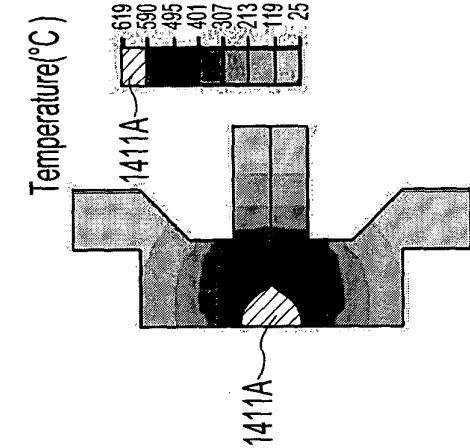


Fig. 14c

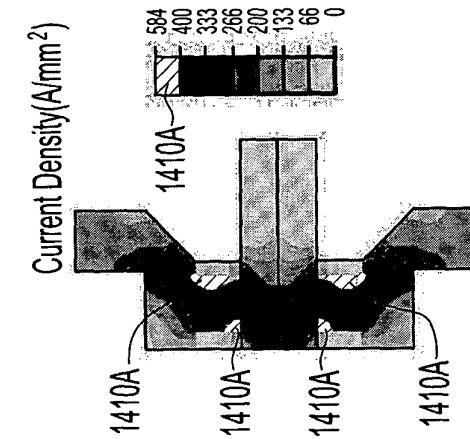


Fig. 14b

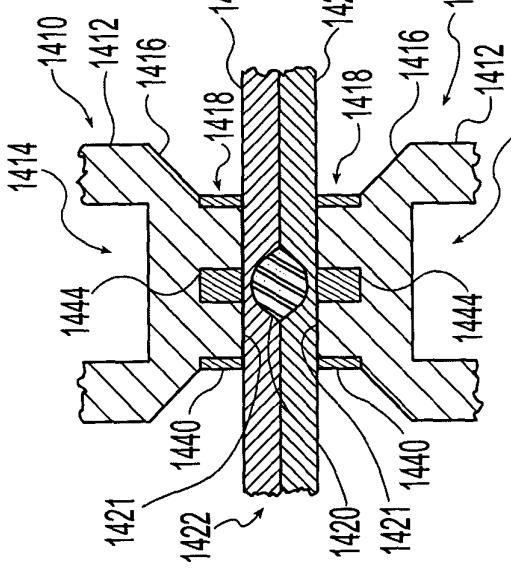


Fig. 14a

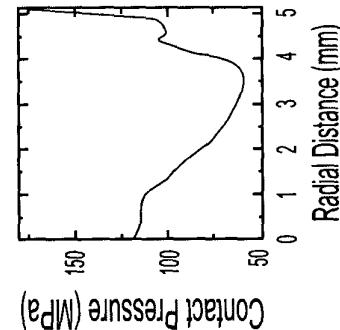


Fig. 14f

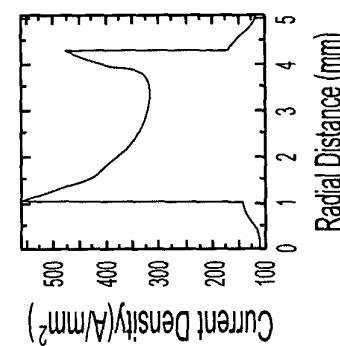


Fig. 14e

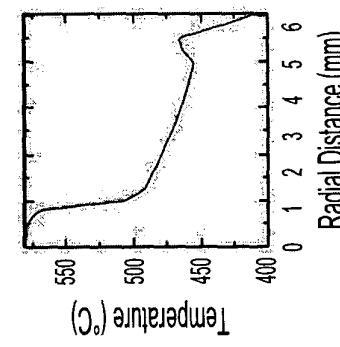


Fig. 14d

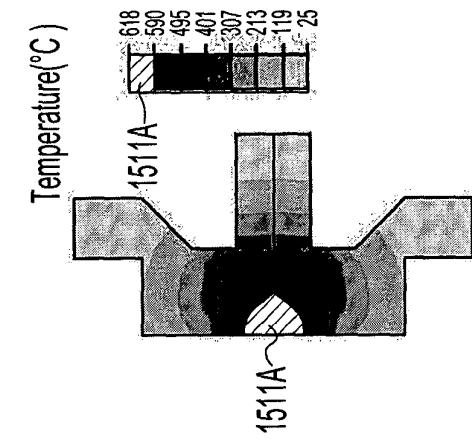


Fig. 15c

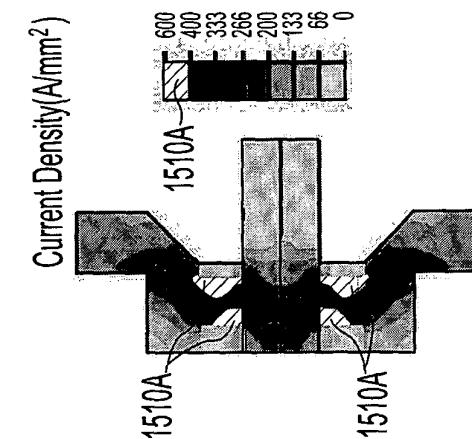


Fig. 15b

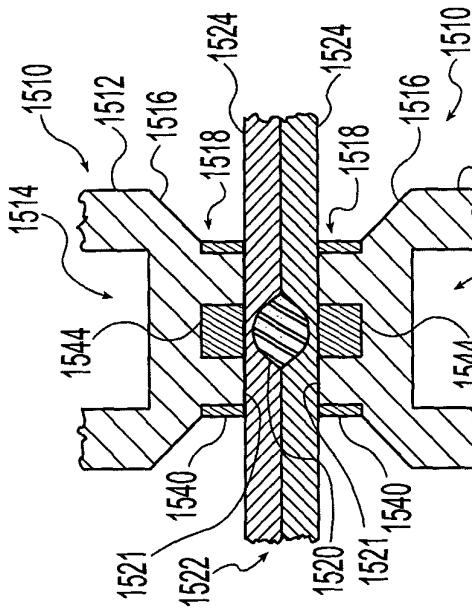


Fig. 15a

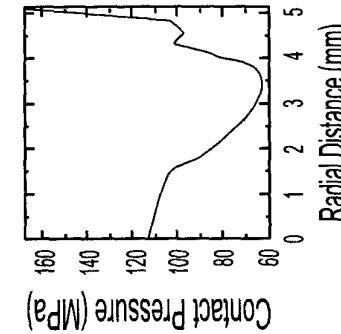


Fig. 15f

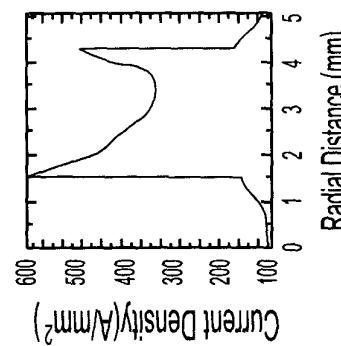


Fig. 15e

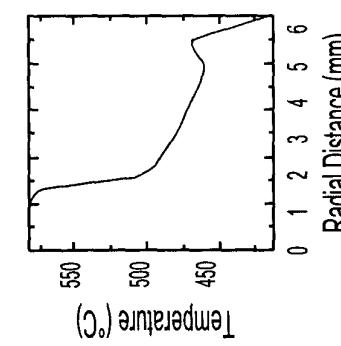


Fig. 15d

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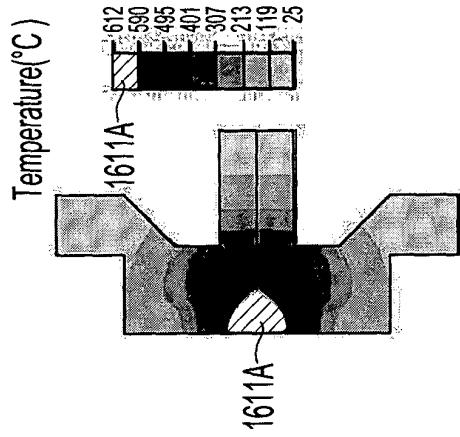


Fig. 16c

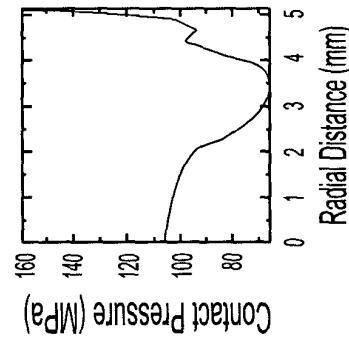


Fig. 16f

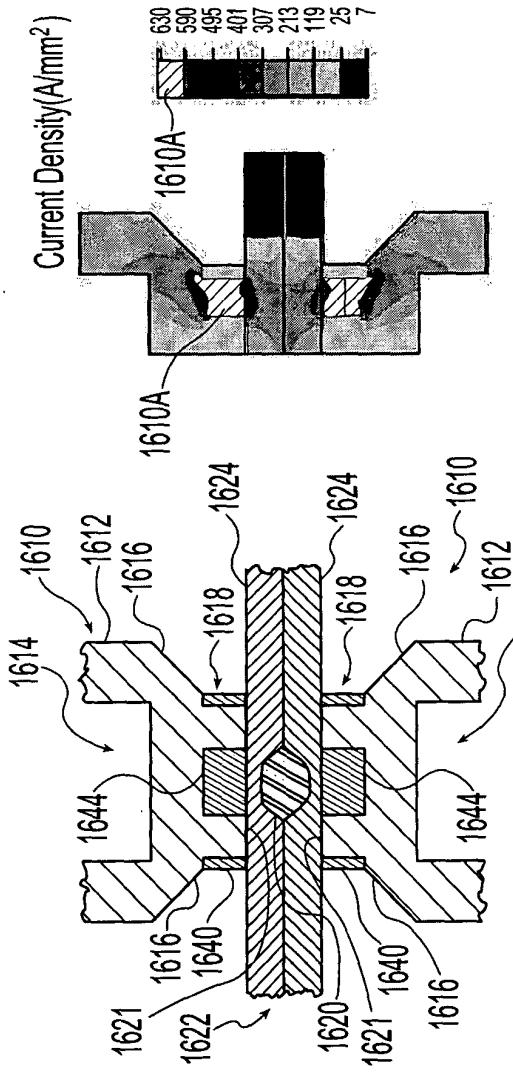


Fig. 16b

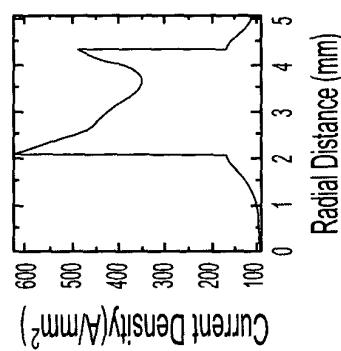


Fig. 16e

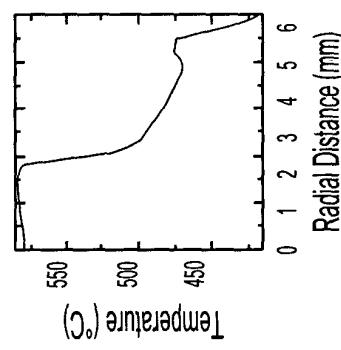


Fig. 16a

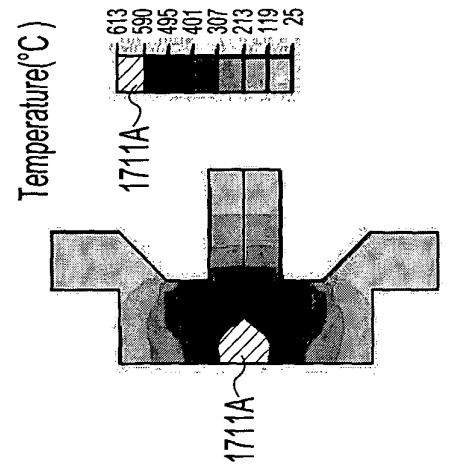


Fig. 17c

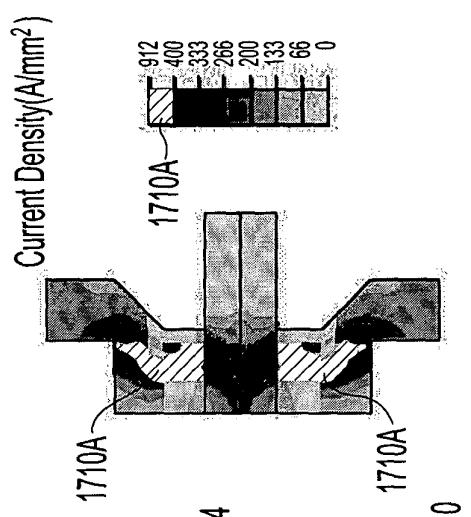


Fig. 17b

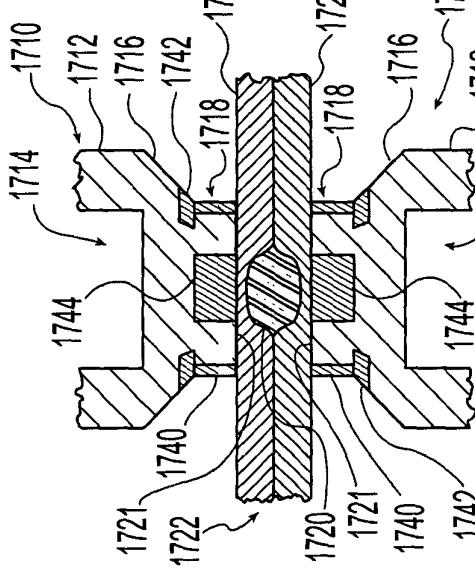


Fig. 17a

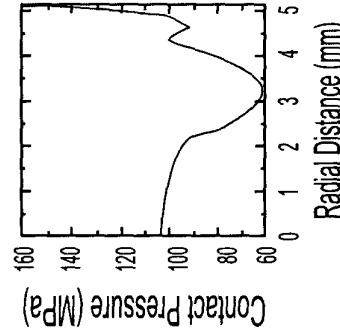


Fig. 17f

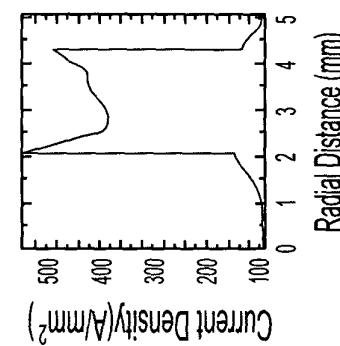


Fig. 17e

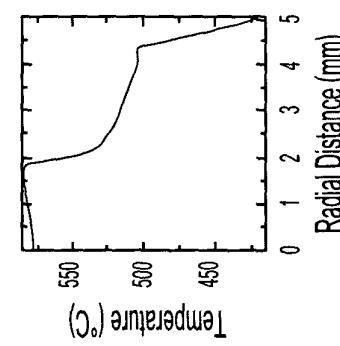


Fig. 17d

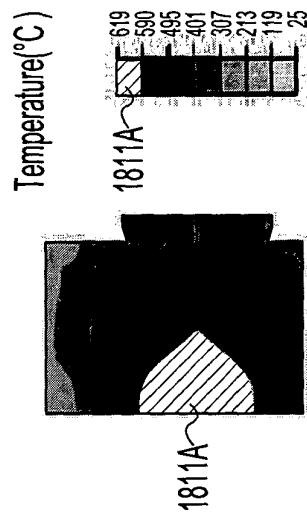


Fig. 18c

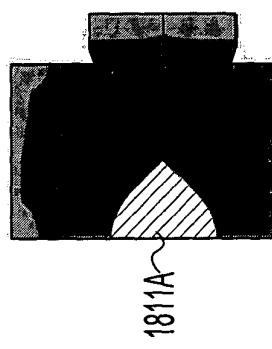


Fig. 18b

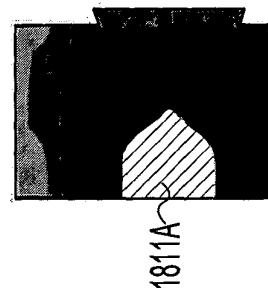


Fig. 18d

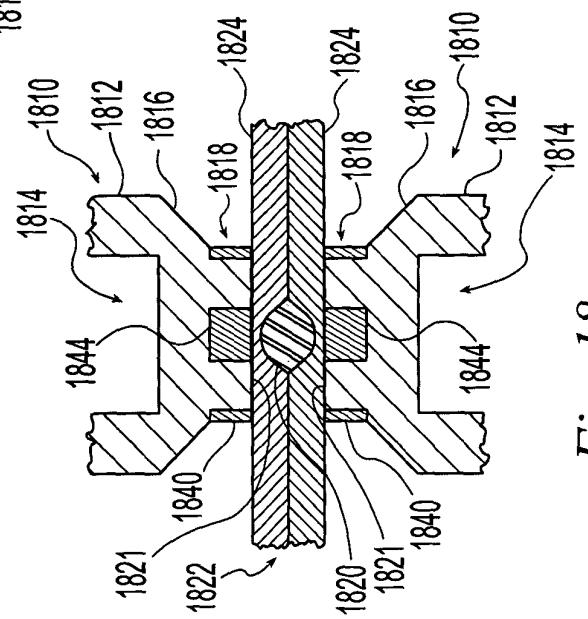


Fig. 18a

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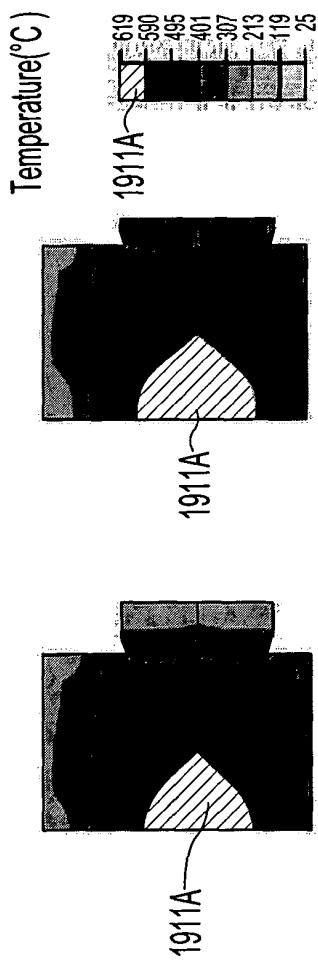


Fig. 19c

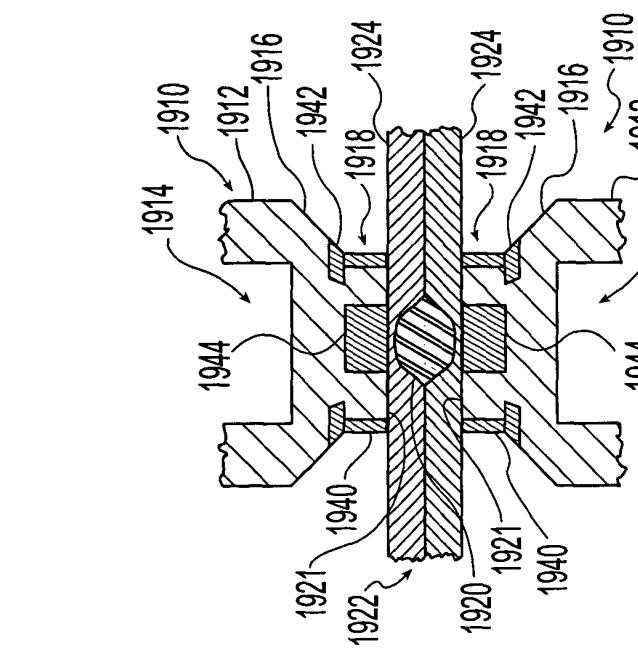


Fig. 19a 1914

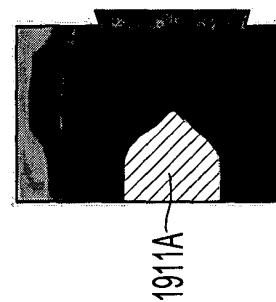


Fig. 19d

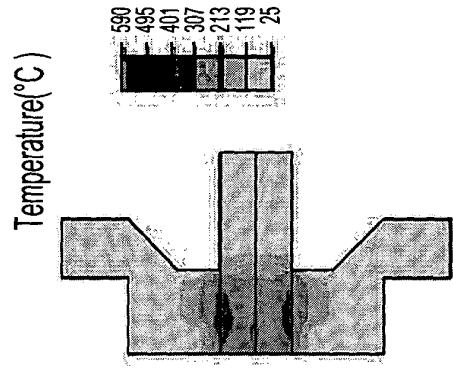


Fig. 20c

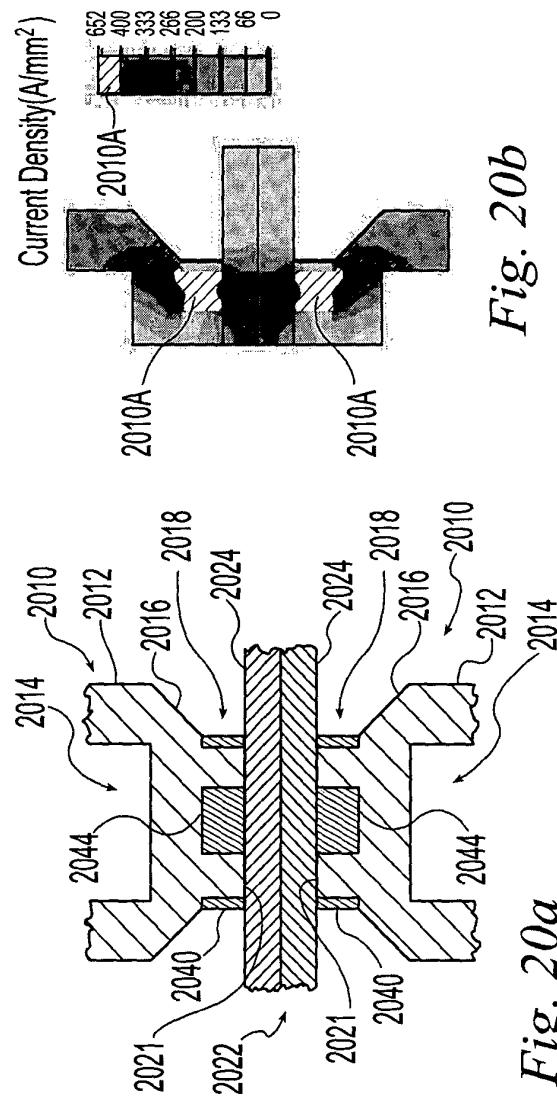
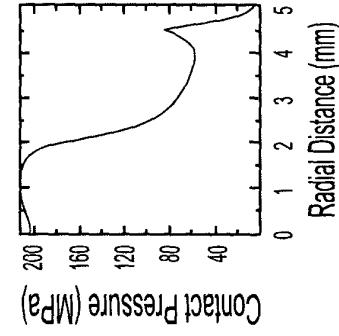


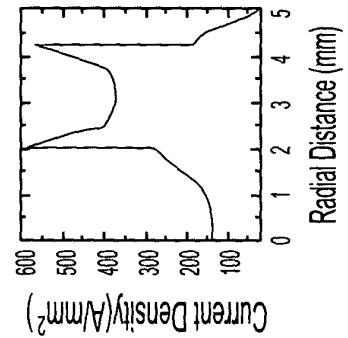
Fig. 20b

Fig. 20a



Contact Pressure (MPa)

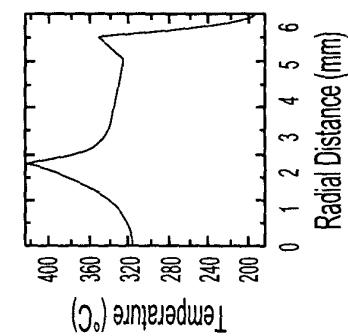
Radial Distance (mm)



Current Density (A/mm²)

Radial Distance (mm)

Fig. 20e



Temperature (°C)

Radial Distance (mm)

Fig. 20d

Fig. 20f

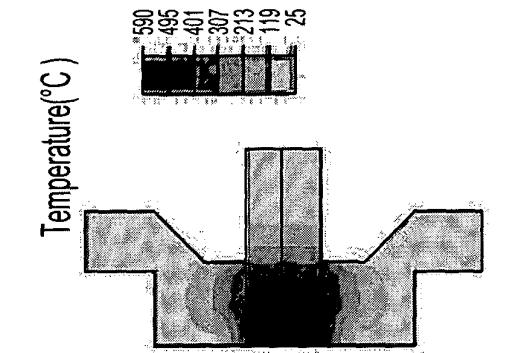


Fig. 21c

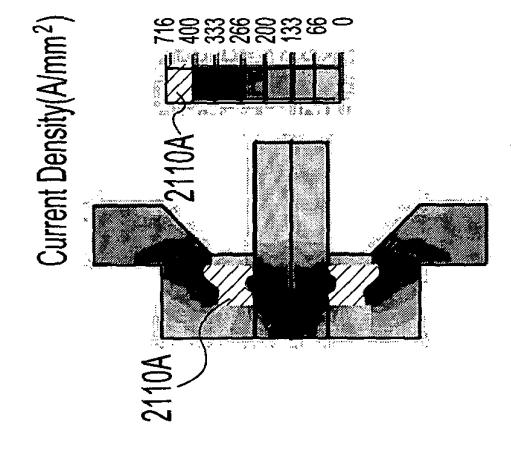


Fig. 21b

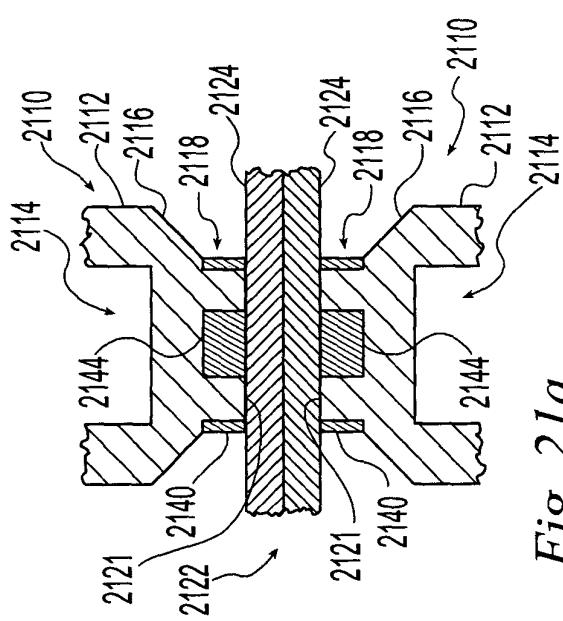
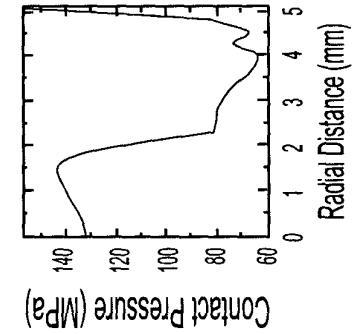
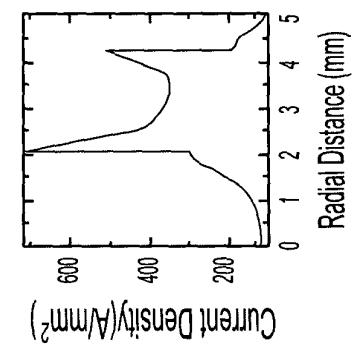


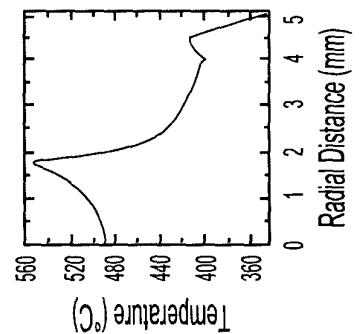
Fig. 21a



Contact Pressure (MPa)



Current Density (A/mm²)



Temperature (°C)

Fig. 21f

Fig. 21e

Fig. 21d

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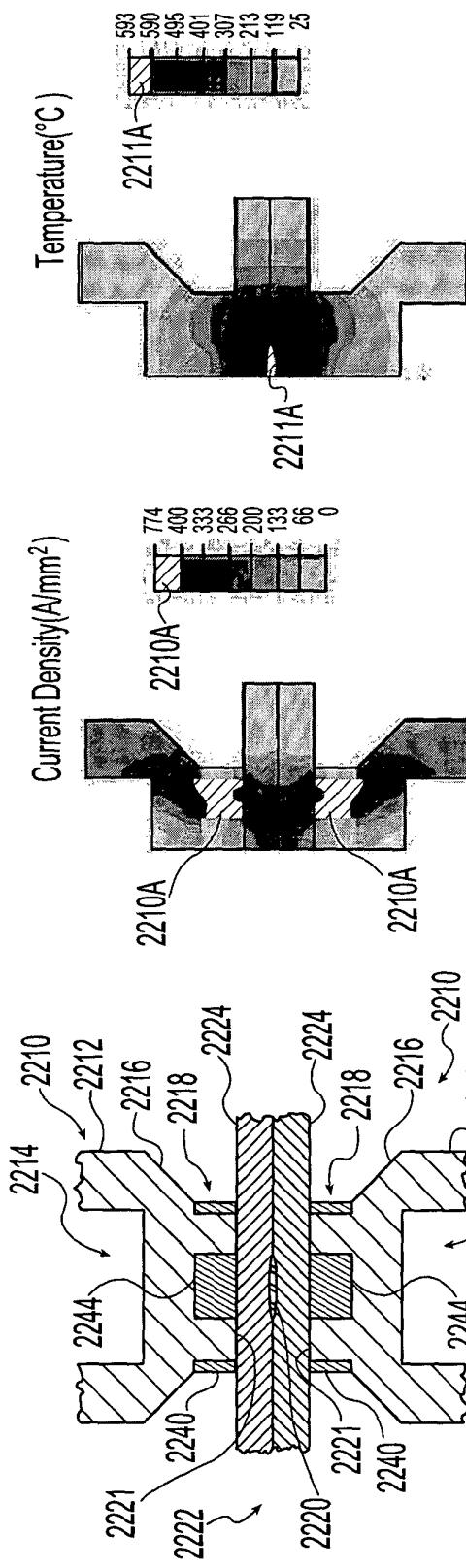


Fig. 22c

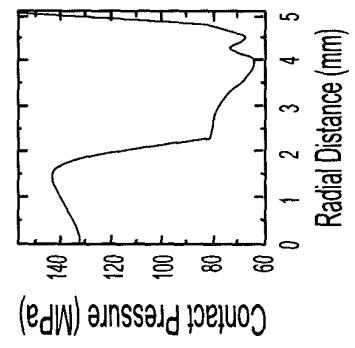


Fig. 22f

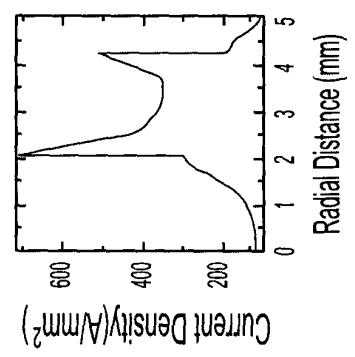


Fig. 22e

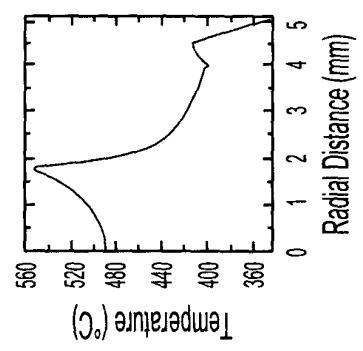


Fig. 22d

Resistance Spot Welding Electrode

Cao, Zhenning et al.

Case, Ellington et al.
Filed August 4, 2003

Filed August 1, 2008
Attorney Docket No. 12004

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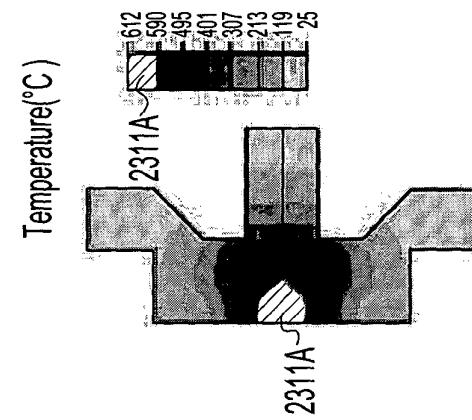


Fig. 23c

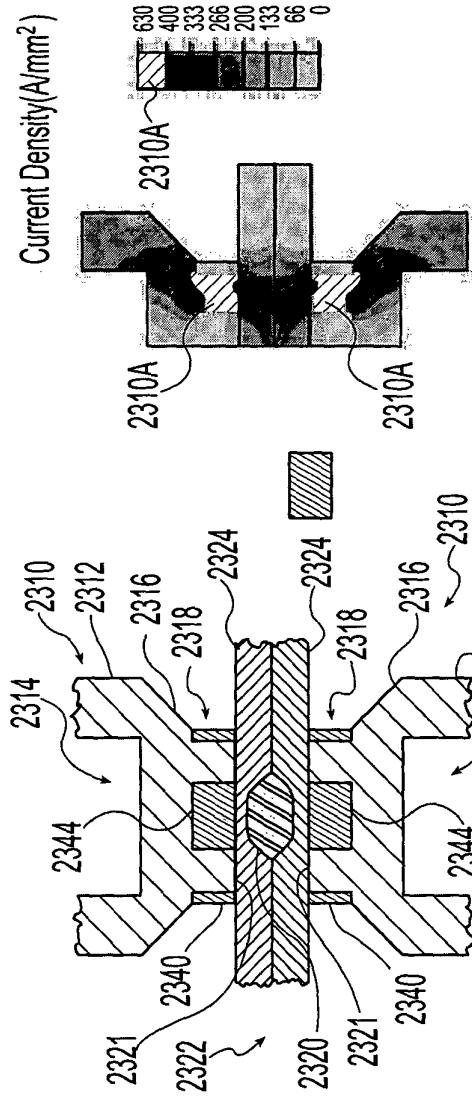
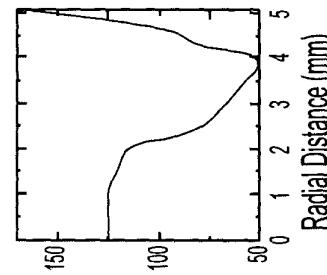


Fig. 23b



Contact Pressure (MPa)

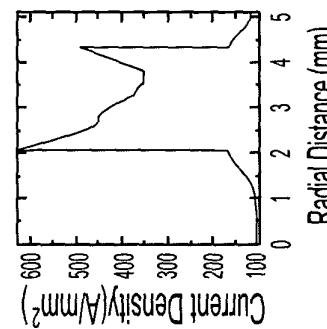


Fig. 23e

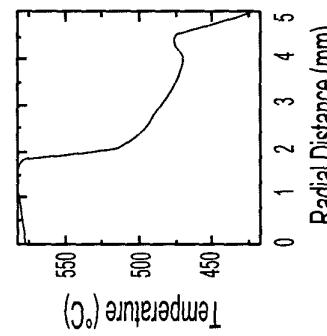


Fig. 23d

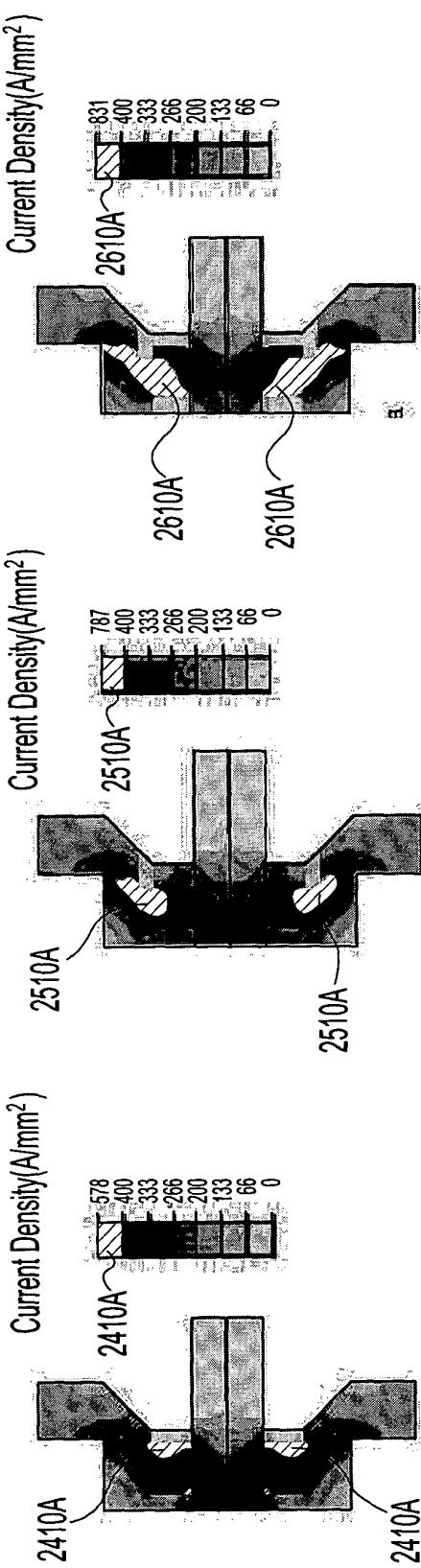


Fig. 24a

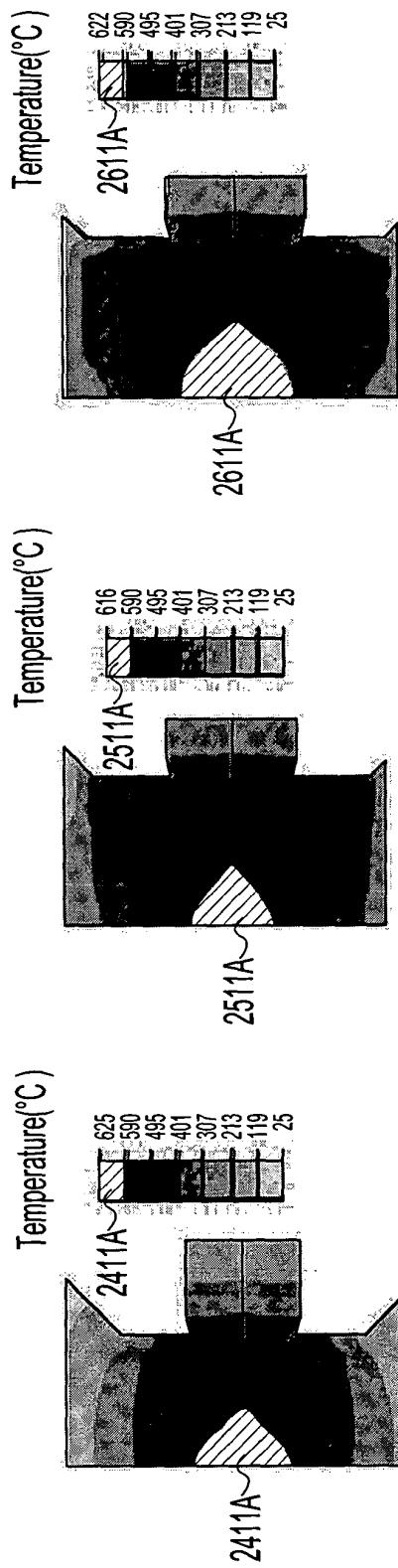
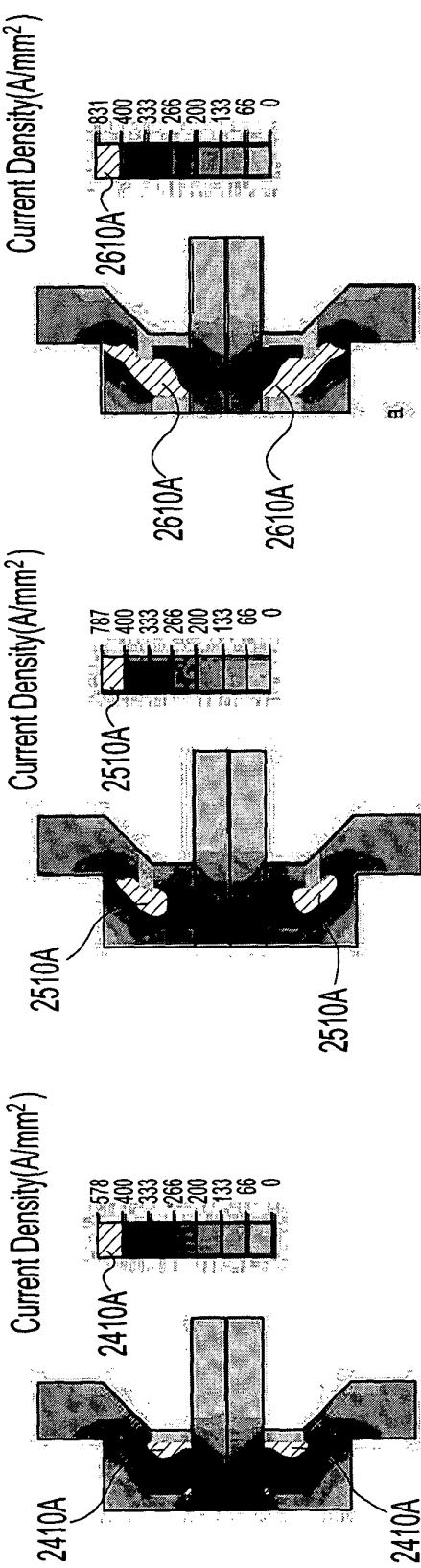


Fig. 25a

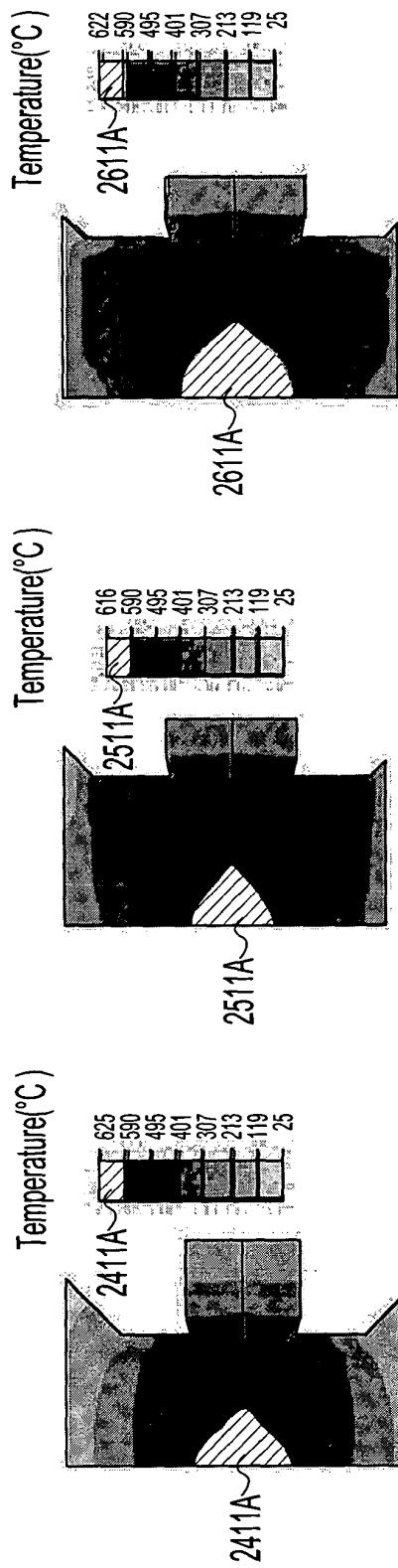


Fig. 25b

Fig. 26a

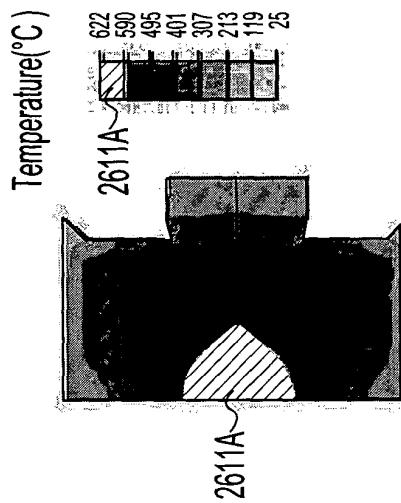


Fig. 26a

Fig. 26b

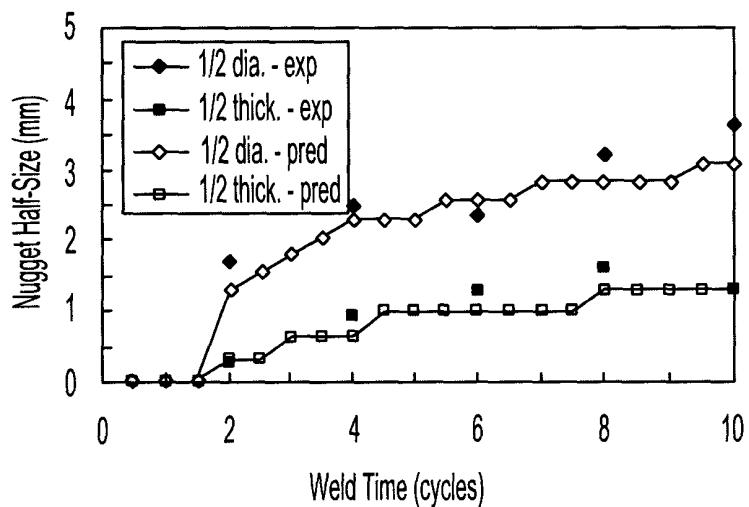


Fig. 27a

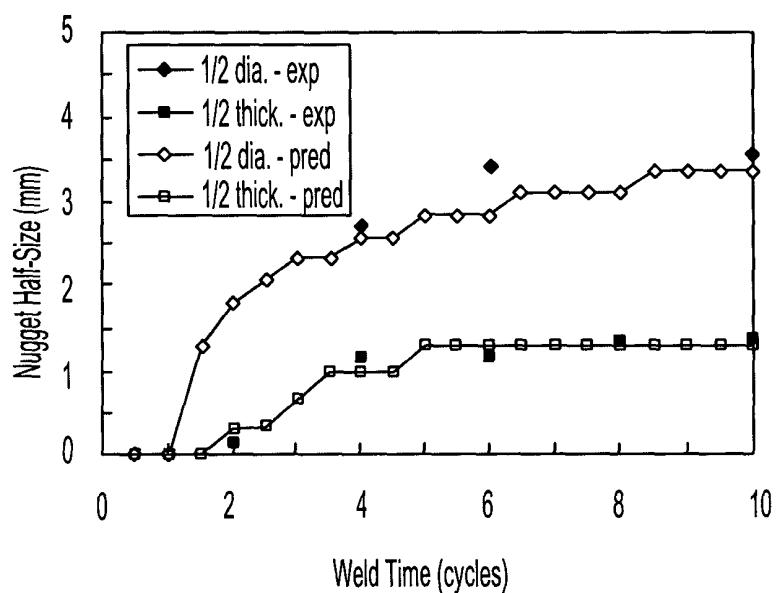


Fig. 27b